

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FRE0201 PCT		FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/CA2004/002212		International filing date (<i>day/month/year</i>) 29 December 2004 (29-12-2004)	Priority date (<i>day/month/year</i>) 23 January 2004 (23-01-2004)
International Patent Classification (IPC) or national classification and IPC IPC: <i>H04N 5/64</i> (2006.01), <i>H05K 7/00</i> (2006.01), <i>H04N 5/655</i> (2006.01)			
Applicant FREEMAN, BASIL NORMAN			
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p style="margin-left: 40px;">a. <input checked="" type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of <u>4</u> sheets, as follows:</p> <div style="margin-left: 80px;"> <input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. 1 and the Supplemental Box. </div> <p style="margin-left: 40px;">b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>			
<p>4. This report contains indications relating to the following items:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Box No. I Basis of the report <input type="checkbox"/> Box No. II Priority <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability <input type="checkbox"/> Box No. IV Lack of unity of invention <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement <input type="checkbox"/> Box No. VI Certain documents cited <input type="checkbox"/> Box No. VII Certain defects in the international application <input type="checkbox"/> Box No. VIII Certain observations on the international application 			
Date of submission of the demand 22 August 2005 (22-08-2005)		Date of completion of this report 31 March 2006 (31-03-2006)	
Name and mailing address of the IPEA/CA Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street Gatineau, Quebec K1A 0C9 Facsimile No.: 001(819)953-2476		Authorized officer Arvo Taagepera (819) 997-3089	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/CA2004/002212

Box No. I Basis of the report

1. With regard to the language, this report is based on:

- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rules 12.3(a) and 23.1(b))
- ☐ publication of the international application (Rule 12.4(a))
- ☐ international preliminary examination (Rules 55.2(a) and/or 55.3(a))

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

☐ the international application as originally filed/furnished

☒ the description:

☒ pages 1-8

as originally filed/furnished

☐ pages*

received by this Authority on

☐ pages*

received by this Authority on

☒ the claims:

☐ pages

as originally filed/furnished

☐ pages*

as amended (together with any statement) under Article 19

☒ pages* 9-12

received by this Authority on

22 August 2005

☐ pages*

received by this Authority on

☒ the drawings:

☒ pages 1/10 to 10/10

as originally filed/furnished

☐ pages*

received by this Authority on

☐ pages*

received by this Authority on

☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages

☐ the claims, Nos.

☐ the drawings, sheets/figs

☐ the sequence listing (*specify*):

☐ any table(s) related to sequence listing (*specify*):

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

☐ the description, pages

☐ the claims, Nos.

☐ the drawings, sheets/figs

☐ the sequence listing (*specify*):

☐ any table(s) related to sequence listing (*specify*):

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/CA2004/002212**Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. Statement**

Novelty (N)	Claims	<u>1-16</u>	YES
	Claims	<u>NONE</u>	NO
Inventive step (IS)	Claims	<u>1-16</u>	YES
	Claims	<u>NONE</u>	NO
Industrial applicability (IA)	Claims	<u>1-16</u>	YES
	Claims	<u>NONE</u>	NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: US 6 831 829 (EINHORN) 14 December 2004 (06-12-2004)

D2: US 6 587 082 (MOORE) 1 July 2003 (01-07-2003)

The application discloses and claims a video display apparatus with an extendable and retractable "thin-screen" or "flat panel" type display screen, the screen being lifted vertically up and out from a cabinet. The cabinet contains a motor-driven belt drive for the purposes of vertically lifting and lowering the screen resting on an "elevator platform". A flexible and foldable ribbon cable connects the moveable screen to the immovable components in the cabinet. Prior art devices are said to have lifted and lowered the entire TV or computer into and out of its cabinet, resulting in heavy weight having to be lifted, whereas the inventive arrangement profits from the low weight of the thin screen by lifting and lowering only the screen and none of the other components.

D1 discloses (abstract, col. 4 lines 11-26, col. 5 line 62 - col. 6 line 8, and col. 7 lines 4-18) a flat panel display screen which is vertically movable to be lifted in and out of its cabinet. Only the thin screen is lifted or lowered, any other components remaining in the cabinet. A flexible and foldable ribbon-cable connects the moveable screen to the immovable components in the cabinet. The cabinet contains motor-driven "lifting columns" for the purposes of lifting and lowering the screen.

D1 does not have a video display screen being retracted and extended by a platform actuated by a belt drive.

D2 discloses (abstract, col. 7 lines 11-32 and 39-4, and col. 8 lines 29-55) retractable thin screen display panels retracted and extended by a pivoting movement. The screens may be extended or retracted manually, or by an electric motor. The extension appears to be taking place on the horizontal plane.

D2 does not have a platform actuated by a belt drive carrying thin screens. D2 does not have the display panels of thin screens extended and retracted by means of vertical lifting.

Continued in SUPPLEMENTAL BOX

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: BOX V

Novelty under Article 33(2) PCT

None of the documents D1 - D2 discloses a video display screen being retracted and extended by an "elevator platform driven by a drive belt".

Claims 1-16 therefore possess novelty under **Article 33(2) PCT**.

Inventive step under Article 33(3) PCT

Claims 1-16 distinguish inventively over the references by having a free-standing exterior housing and a fully-contained elevator mechanism extending upwardly within the exterior housing, which cannot be seen in documents D1 or D2. The swivel mounting of D2 would be impractical and detrimental if applied to the arrangement of the instant independent claims 1 or 9 in that it would move the screen out of vision of a normally-situated viewer.

Claims 1-16 therefore possess inventive steps under **Article 33(3) PCT**.

Industrial applicability under Article 33(4) PCT

The subject matter of a video display apparatus having an extendable and retractable "thin-screen" or "flat panel" type display screen being extended and retracted from a cabinet is industrially practicable and reproducible.

Claims 1-16 therefore possess industrial applicability under **Article 33(4) PCT**.